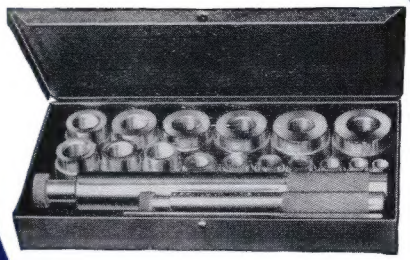
MANUFACTURERS OF *Quality Tools* SINCE 1919

BEARD®



Catalog No. 59

L. O. BEARD TOOL CO.
LANCASTER, PA., U. S. A.

BEARD TOOLS

BUY THE BEST — UNDER ANY TEST

GUARANTEE

BEARD tools are known world wide for their quality, service and dependability.

Having satisfied customers in mind, our products are manufactured with the utmost care, from high quality materials. They are guaranteed to be free from defects in workmanship and materials.

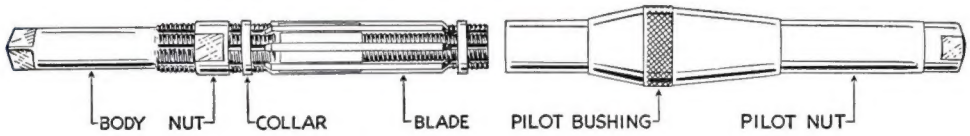
Any tools found defective under these conditions will be replaced no-charge. Normal wear, abuse (intentional or unintentional), or other reasons cannot be considered as basis for replacement.

ALL PRICES SHOWN IN THE PRICE SHEET ARE DEALERS NET TO THE TRADE.

The company reserves the right to change design, construction, size or make up of our products at any time without incurring obligation to incorporate such changes in tools previously sold, and to discontinue any item as is deemed necessary.

All dimensions shown in this catalog are subject to commercial tolerances.

REPAIR PARTS FOR REAMERS



Interchangeability of nuts and collars eliminates carrying excessive stocks. Example: B, 3-B, & 2-L nuts and collars are interchangeable. See listing below.

BLADES AND BUSHINGS ARE NOT INTERCHANGEABLE ON THE VARIOUS TYPES OF REAMERS, THEREFORE WHEN SETS OF BLADES OR BUSHINGS ARE ORDERED USE CATALOG NUMBERS OF THE REAMERS FOR WHICH THE BLADES OR BUSHINGS ARE REQUIRED.

NOTE: When ordering sets of High Speed Steel Blades, place the prefix HS before the letter or number of the reamer.

Reamer Numbers
8A & 395
7A & 396
6A & 397
5A & 398
4A & 399
3A & 400
2A & 401
A
1B, & 0L
2B, & 1L
B, 3B, & 2L
C, 4B, 3L & 4L
D, 5B & 5L
E, 6B, 6L, & 7L
F, 7B, & 8L
G, 8B & 9L
H, 9B, & 10L
10B, 11L, & 12L
11B, & 13L
I, 12B, & 14L
J, 13B, & 15L
K, 14B, & 16L
L, 15B, & 17L
15BA
M
N
O

WE DO NOT SHIP LESS THAN A SET OF BLADES.

Use cutting oil on all reaming. See our reamer cutting oil described on page 14.

WHEN REAMERS ARE RETURNED TO OUR FACTORY NEEDING LESS THAN FOUR BLADES TO BE INSTALLED IN A REAMER, ADD THE RESHARPENING CHARGE TO THE COST OF THE BLADES TO OBTAIN THE REPAIR CHARGE. WHEN FOUR OR MORE BLADES ARE TO BE INSTALLED, WE ABSORB THE RESHARPENING CHARGE.

FOR RESHARPENING CHARGES OF CARBON AND HIGH SPEED STEEL REAMERS SEE LISTING ON PRICE SHEET.

ALL RESHARPENING IS DONE WITH THE BLADES IN THEIR RESPECTIVE SLOTS IN THE BODY, THEREFORE, COMPLETE REAMER MUST BE RETURNED TO US. DO NOT RETURN BLADES ONLY.

WHEN REAMERS ARE RETURNED TO US FOR SETS OF NEW BLADES, WE FIT EACH BLADE IN ITS RESPECTIVE SLOT IN THE BODY AND GRIND THEM WHILE IN POSITION. THIS ASSURES YOU OF PERFECTLY TRUE REAMERS GIVING THE SAME RESULTS AS A NEW TOOL. WE DO NOT CHARGE FOR THIS EXTRA SERVICE. YOU PAY FOR THE SET OF BLADES ONLY.

Precision Pilot Reamers

WITH DOUBLE TAPER, COUNTER SUNK PILOT BUSHING

TO GET PERFECT ALIGNMENT
THE PRECISION PILOT WAY IS THE BEST WAY TO REAM

KING BOLT BUSHINGS PISTON PIN BUSHINGS PITMAN ARM BUSHINGS

See from the prices how inexpensive it is to equip your shop with a set of these modernly constructed reamers and eliminate your reaming worries.

Part of the pilot bushing shown above is cut away. This shows how the bushing will slide over the nut and collar of the reamer and follow after the blades as they are adjusted, making a very practical piloted reamer for reaming short bushings.

The blades in these reamers are placed at the proper angle to give a smooth shearing cut.

Retaining collars are placed at each end of the blades to protect the reamer nuts, hold the blades firm and allow the reamers to be easily adjusted.

There are two positive guides. The pilot bushing guides the front and the parallel blades guide the back.

Each reamer adjusts to the contracted size of the next larger reamer so that a complete set of sixteen reamers will ream all sizes from 7/16" to 1-13/16".

Through our many years of experience with a high standard on reamers in mind, we have developed the Precision Pilot Reamer, which brings two holes in line and gives a very good percentage of bearing surface.

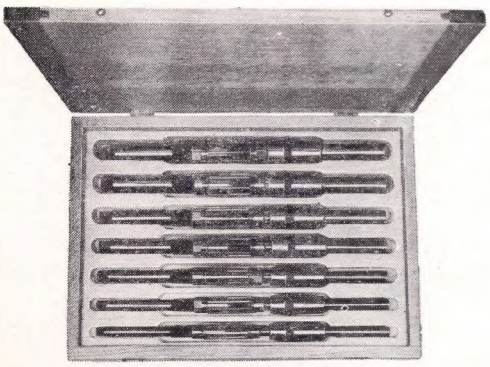
NOTE: When ordering reamers with High Speed Steel blades place the prefix HS before the number.

Example: When ordering 1 B with High Speed Steel Blades, HS-1 B.

Use Cutting Oil on all Reaming. See our Reamer Cutting Oil described on page 14.

INDIVIDUAL REAMERS

Number	Size Inches	No. of Blades	Length Overall Inches: Reamer	Length Overall Inches: Blades	Weight each: Lb.	Weight each: Oz.
1B	7/16 - 1/2	5	9-1/4	2		6
2B	1/2 - 9/16	6	9-1/4	2		6
3B	9/16 - 5/8	6	9-1/4	2		7
4B	5/8 - 11/16	7	9-1/4	2		8
5B	11/16 - 3/4	7	12-1/4	2		12
6B	.730 - 13/16	7	12-1/4	2		14
7B	13/16 - 7/8	7	12-1/4	2	1	1
* 8B	.860 - 15/16	7	12-1/4	2	1	5
** 9B	.915 - 1	7	12-1/4	2	1	-
10B	.985 - 1- 1/16	7	12-1/4	2	1	13
11B	1- 1/16 - 1- 1/8	7	12-1/4	2	2	1
12B	1- 1/8 - 1- 1/4	7	13	3	2	6
13B	1- 1/4 - 1- 3/8	7	13	3	2	10
14B	1- 3/8 - 1- 1/2	7	13	3	3	5
15B	1- 1/2 - 1- 5/8	7	13	3	4	4
15BA	1- 5/8 - 1-13/16	7	15	3	6	6



No. 17B Set

REAMER SETS

Set No. 16B contains four reamers, 1B to 4B (cutting range 7/16" to 11/16") put up in metal box. 2 8

Set No. 17B contains seven reamers, 5B to 11B (cutting range 11/16" to 1-1/8") put up in wood box. 13 12

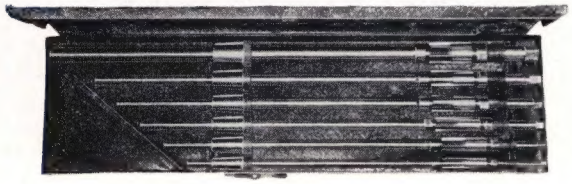
Any Combination of Eleven Reamers (except 15BA) can be furnished in one Set Box at an additional cost of $8.75.

* **8B** will ream Chevrolet 6 Piston Pin Bushing, size .866".
** **9B** will ream Chevrolet 6 Truck King Bolt Bushing, size .922'

Extra Long Aligning Reamers
For Electric Motor Bearings

And any other job where it is necessary to bring two bearings into perfect alignment.

By putting the motor bells in place on the motor frame and reaming the bearings in this manner you are assured of a true running armature with an extremely high percentage of bearing surface that insures long bearing life.



NOTE: When ordering reamers with High Speed Steel blades place the prefix HS before the number.

Example: When ordering 1L with High Speed Steel blades, HS-1L.

Use Cutting Oil on all Reaming. See our Reamer Cutting Oil described on page 14.

Number	Size Inches	Length Overall Inches Reamer	Blades	No. of Blades	Length of Pilot incl. Nut & Collar Inches	Length of Shank Inches	Weight each Lb.	Oz.
0L	7/16 - 1/2	13-1/4	2	5	8-7/16	1-11/16		6
1L	1/2 - 9/16	15	2	6	10-3/4	1- 1/4		8
2L	9/16 - 5/8	15	2	6	10-3/4	1- 1/4		8
3L	5/8 - 11/16	16	2	7	11-3/4	1- 1/4		12
4L	21/32 - 23/32	16	2	7	11-3/4	1- 1/4		12
5L	11/16 - 3/4	17	2	7	12-3/4	1- 1/2		15
6L	3/4 - 13/16	18	2	7	13-1/2	1- 1/2	1	3
7L	25/32 - 27/32	18	2	7	13-1/2	1- 1/2	1	3
8L	13/16 - 7/8	19	2	7	14-1/2	1- 1/2	1	8
9L	7/8 - 15/16	19	2	7	15-1/2	1- 1/2	1	13
10L	15/16 - 1	20	2	7	16-1/2	1- 1/2	2	6
11L	1 - 1- 1/16	21	2	7	16-1/2	1- 1/2	2	14
12L	1- 1/32 - 1- 3/32	21	2	7	16-1/2	1- 1/2	2	12
13L	1- 1/16 - 1- 1/8	21	2	7	16-1/2	1- 1/2	3	5
14L	1- 1/8 - 1- 1/4	24	3	7	17-1/2	2- 1/4	3	15
15L	1- 1/4 - 1- 3/8	24	3	7	17-1/2	2- 1/4	4	3
16L	1- 3/8 - 1- 1/2	24	3	7	17-1/2	2- 1/4	5	5
17L	1- 1/2 - 1- 5/8	24	3	7	17-1/2	2- 1/4	6	14
19L	**Set, in metal box, contains 1/2", 5/8", 11/16", 3/4", 13/16" and 1" Reamers.**						10	15

SOLID TYPE ALIGNING REAMERS FOR SMALL ELECTRIC MOTORS

Number	Size Inches	Length Overall Inches	Covers	Weight each Lb.	Oz.
25L	1/4	6-1/2	Sew Motors, Fans, etc.		2
28L	9/32	7-1/2	Super Royal, Cadillac, Healthmore.		3
29L	5/16	7-1/2	Eureka, Cadillac.		3
29LB	3/8	8			4
29LC	7/16	9			7
30L	1/2	10	G. E. and other Washing Machine Motors.		9
31L	9/16	11			12
32L	5/8	11			15
33L	21/32	13		1	3
21LS	**Set of five reamers, 25L, 28L, 29L, 29LB and 30L put up in metal box.**			**2**	**5**

All Solid type reamers listed above have a pilot on the front end to guide it accurately through the bushing

Special sizes in the Solid Type (within the above range) will be furnished at an additional NET cost.

Adjustable Reamers & Reamer Pilots

Reamer

Reamer with Pilot Attached

Pilot

INDIVIDUAL REAMERS, PILOTS, OR REAMERS WITH PILOTS ATTACHED

Number	Size Inches	No. of Blades	Length Overall Inches Reamer	Length Overall Inches Blades	Reamer Wt. each Lb.	Reamer Wt. each Oz.	Length of Pilot Inches	Pilot Wt. each Lb.	Pilot Wt. each Oz.
8A	1/4 - 9/32	4	3-½	1-⅝		1	——	—	—
7A	9/32 - 5/16	4	3-¾	1-⅝		1	——	—	—
6A	5/16 - 11/32	4	4	1-⅝		2	——	—	—
5A	11/32 - 3/8	4	4-¼	1-⅞		2	——	—	—
4A	3/8 - 13/32	4	4-½	1-⅞		2	——	—	—
3A	13/32 - 7/16	6	4-¾	1-⅞		3	——	—	—
2A	7/16- 15/32	6	5	1-⅞		3	——	—	—
A	15/32- 17/32	6	5-¼	2		3	5		4
B	17/32 - 19/32	6	5-¾	2		4	5		4
C	19/32 - 21/32	7	6-¼	2-¼		5	5		5
D	21/32 - 23/32	7	6-¾	2-¼		6	5-⅞		7
E	23/32 - 25/32	7	7-¼	2-½		8	5-⅞		8
F	25/32 - 27/32	7	7-¾	2-½		11	5-⅞		10
G	27/32 - 15/16	7	8-¼	3		13	5-⅞		11
H	15/16 - 1- 1/16	7	8-¾	3	1	1	5-⅞		14
I	1- 1/16 - 1- 3/16	7	10	3-½	1	10	5-⅞		15
J	1- 3/16 - 1-11/32	7	11	3-½	1	15	5-⅞	1	3
K	1-11/32 - 1-17/32	7	12	4	2	10	5-⅞	1	11
L	1-17/32 - 1-25/32	7	13	4	3	14	5-⅞	2	1
M	1-25/32 - 2- 7/32	7	15	5-¼	6	9	9	4	13
N	2- 7/32 - 2- 3/4	7	17	5-¾	11	10	9	6	5
O	2- 3/4 - 3-11/32	7	19	6-½	20	9	9	10	

Pilots are not available for reamers numbers 8A to 2A but Extension Shanks can be had for these, see our listing page 6.

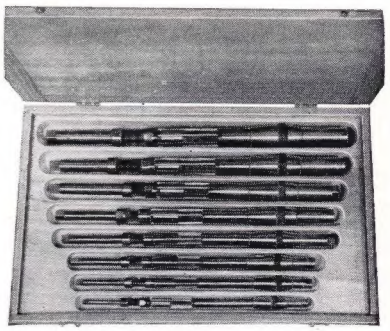
AVAILABLE IN CARBON OR HIGH SPEED STEEL

NOTE: When ordering reamers with High Speed steel blades place the prefix HS before the number. Example: HS-A Reamer or HS-A Reamer & Pilot.

When ordering carbon Steel Reamers, Pilots, or Reamers with Pilots attached use the numbers shown followed by the description. Example: A Reamer, A Pilot, A Reamer & Pilot.

SETS

		Weight each Lb.	Weight each Oz.
No. 1 SET,	contains eight reamers (without pilots) numbers A to H, cutting range 15/32" to 1-1/16" in metal box.	6	5
No. 2 SET,	contains four reamers (without pilots) numbers I to L, cutting range 1-1/16" to 1-25/32" in metal box.	12	14
No. 3 SET,	contains eight reamers with pilots attached numbers A to H, cutting range 15/32" to 1-1/16" in wood box.	13	1
No. 4 SET,	contains eight pilots (only) numbers A to H, range 15/32" to 1-1/16" in cardboard box.	3	12
No. 5 SET,	contains four pilots (only) numbers I to L, range 1-1/16" to 1-25/32" in cardboard box.	5	12
No. 7P SET,	contains nine reamers with pilots attached numbers A to I, cutting range 15/32" to 1-3/16" in metal box.	14	8
No. A7 SET,	contains seven reamers (without extension shanks) numbers 8A to 2A, cutting range 1/4" to 15/32", in metal box	1	3
No. 8 SET,	contains twelve reamers (without pilots) numbers A to L, cutting range 15/32" to 1-25/32", in metal box.	19	3
No. 8P SET,	contains twelve reamers with pilots attached numbers A to L, cutting range 15/32" to 1-25/32", in metal box.	32	5



No. 3 Set

Use Cutting Oil on all Reaming. See our Reamer Cutting Oil described on page 14.

The pilot guides the reamer so that it cannot jump, chatter or gouge when starting to ream.

Our Pilots will fit other make reamers listed below:

CAL-VAN MACHINE PRODUCTS, INC.
CLEVELAND TWIST DRILL CO.
(except sizes 7A, 6A, 5A, 2A, B, L, M, N, O)
MORSE TWIST DRILL & MACHINE CO.
(except sizes 4A, 3A, 2A, A, M, N, O)
NATIONAL MACHINE & TOOL COMPANY
NEW BRITAIN MACHINE COMPANY
OWATONNA TOOL COMPANY
REIFF and NESTOR COMPANY
SNAP-ON TOOLS CORPORATION
VEDOE-PETERSON CO. (except size A)
ZOERMAN-CLARK MFG. COMPANY

Valve Guide Reamers

The Most Practical Way to Remove Carbon

True Up and Oversize Valve Guides to Eliminate Sticking Valves

ADJUSTABLE BLADE TYPE WITH EXTENSION SHANK

Number	Size Inches	Length Overall Inches	Length of Blade Inches	Weight each Lb.	Weight each Oz.
395	1/4 - 9/32	8	1-5/8		2
396	9/32 - 5/16	8	1-5/8		3
397	5/16 - 11/32	8	1-5/8		3
398	11/32 - 3/8	8	1-7/8		4
399	3/8 - 13/32	8	1-7/8		4
400	13/32 - 7/16	8	1-7/8		5
401	7/16 - 15/32	8	1-7/8		6
394	Set of seven reamers with extension shanks listed above, numbers 395 to 401 inclusive, range 1/4" to 15/32" in metal box.			2	8

EXTENSION SHANKS ONLY

To be used on our numbers 8A to 2A Adjustable Reamers (Page 4) converting them into Adjustable Type Valve Guide Reamers. This assembly can also be used for other Alignment reaming.

Number	Size Inches	Length Overall Inches	Weight each Lb.	Weight each Oz.
385	1/4	5-1/2		2
386	9/32	5-1/2		2
387	5/16	5-1/2		2
388	11/32	5-5/16		3
389	3/8	5-5/16		3
390	13/32	5-5/16		4
391	7/16	5-5/16		4
384	**Set** of seven extension shanks listed above, numbers 385 to 391 inclusive, range 1/4" to 7/16", in cardboard box.			14

NOTE: When ordering reamers with High Speed Steel blades place the prefix HS before the number.
Example: When ordering 395 with High Speed Steel blades, HS-395.

Use Cutting Oil on all Reaming. See our Reamer Cutting Oil described on page 14.

SOLID TYPE

Our solid Type Valve Guide Reamers are made of high grade tool steel, properly tempered, containing flutes (or blades) unequally spaced, which eliminates chattering and permits sharpening to a keen edge, making them free cutting tools.

Number	Size Inches	Length Overall Inches		Weight each Lb.	Weight each Oz.
1000	5/16	7-1/2			3
1001	21/64	7-1/2			3
1002	11/32	7-1/2			4
1002A	23/64	8			4
1003	3/8	8			5
1004	25/64	8			5
1004A	.397	8	Oldsmobile 88-98		5
1005	13/32	8			5
1005A	27/64	8			6
1006	7/16	9			6
1007	29/64	9			7
1007A	15/32	9			7
1007B	31/64	9			7
1008	1/2	9			8
1009	33/64	9			9

Special sizes in the Solid Type (within the above range) will be furnished at no additional cost.

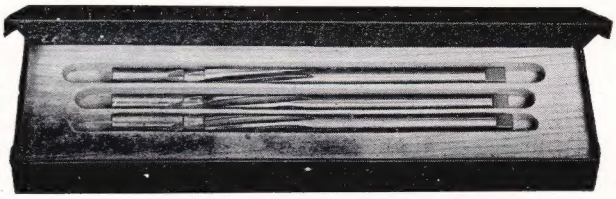
SOLID TYPE VALVE GUIDE REAMER SETS

Number	Description	Weight each Lb.	Weight each Oz.
1015	**Set** of 5 Reamers, 1 each 5/16", 11/32", 3/8", 7/16", 1/2" in metal box.	2	10
1016	**Set** of 4 Reamers, 1 each 5/16", 11/32" 3/8", 7/16", in metal box.	2	1

Special Oversize Reamers

FOR ENGINES WITH NON-REMOVABLE VALVE GUIDES

Many late model cars & trucks do not use removable valve guides, therefore, when the guides become worn these reamers are necessary to ream them to accommodate the oversize value stems furnished by the manufacturers.



No. FC48 Set

For: 1952-58 Ford 6 Cyl. 1954-58 Ford V-8 with 292 C. I. Engine. 1955-58 Chevrolet Cars & Trucks using 265 & 283 Engines. 1957-58 G. M. C. using 336 & 347 Engines. 1952-57 Lincoln. 1954-57 Mercury. Also see Ford Truck listink below.*

Number FC48 Set of 3 reamers as illustrated in metal box. 1 Lb. 12 Oz.

INDIVIDUAL REAMERS IN ABOVE SET

Number	Length Overall Inches	Size Inches		Weight Each Oz.
FC3	7	.347	.003 Oversize	4
FC15	7	.359	.015 Oversize	4
FC30	7	.374	.030 Oversize	4

For Chevrolet and Ford Trucks see listing below*.

Number FT48 Set of 3 reamers in metal box. 1 Lb. 12 Oz.

INDIVIDUAL REAMERS IN ABOVE SET

FT3	7	.441	.003 Oversize	4
FT15	7	.453	.015 Oversize	4
FT30	7	.468	.030 Oversize	4

For: 1958 Chevrolet using 348 Turbo-Thrust Engine. 1958 Ford V-8 using 332 & 352 C. I. Engines. 1958 Edsel, Lincoln & Mercury. 1955-56 Hudson 8 Cyl., Nash Ambassador Models 5580-5680 & Packard. 1956-58 Pontiac. 1956 Studebaker Golden Hawk 56 J. Also see Chevrolet Truck listing below.*

Number CH48 Set of 3 reamers in metal box. 1 Lb. 12 Oz.

INDIVIDUAL REAMERS IN ABOVE SET

CH3	7	.3775	.003 Oversize	4
CH15	7	.3895	.015 Oversize	4
CH30	7	.4045	.030 Oversize	4

For: 1955-58 Plymouth 8 Cyl. and Chrysler Windsor. 1957-58 DeSoto Models S27, LS1-2-3. 1955-58 Dodge 8 Cyl. (except D55-3 Model) and Dodge Truck engines using non-removable valve guides.

Number CH50 Set of 3 reamers in metal box. 1 Lb. 12 Oz.

INDIVIDUAL REAMERS IN ABOVE SET

CH5	7	.3795	.005 Oversize	4
CH15	7	.3895	.015 Oversize	4
CH30	7	.4045	.030 Oversize	4

*** 1958 Chevrolet Trucks using 348 Engine with non-removable valve guides requires an FT48 Set and CH48 Set.**

*** All Ford Trucks with non-removable valve guide requires an FC48 Set and FT48 Set.**

For: OLDSMOBILE 88 - 98 Exhaust Valves

1004A	8	.397	5

Solid Type Reamers
For Popular Make Cars

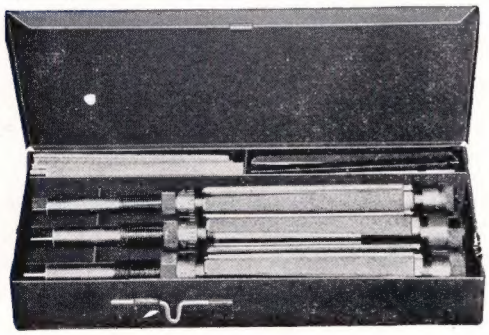
Use Cutting Oil on all Reaming. See our Reamer Cutting Oil described on page 14.

PISTON PIN BUSHING REAMERS

These reamers are constructed to ream both the piston and connecting rod bushings. The front end is ground to act as a pilot which makes reaming of these bushings an easy operation.

Number		Front Size Inches	Back Size Inches	Overall Length Inches	Weight Each Lb.	Weight Each Oz.
65	Ferguson Tractor 1939-47; Ford V-8 Cars 1932-53 (except 60 H.P.); V-8 Ford Trucks 85-100 H. P. to 1953 Incl.; Ford Tractors 1939-52; Henry J 6 Cyl. 1951-54; Hudson all models 1936-47, All 8 Cyl. 1948-52, 1953-56 Jet 1C-D, 2C-D, 3D, Wasp 35540, 35640; Lincoln 1936-48; Mercury 1939-53; Studebaker Champion 1939-57; Studebaker Trucks models M5-15-15A, M15A-20-28, 2R5-10-15, 2R15-21-31, 3R5-10-15, E5-10-15, 2E5-10, 3E5-10, G, 2G, 58G 1941-58; Willys 6 Cyl. 1948-56 (except 6-226 Models); Wisconsin Motors (except VG4D, VP4, AG-H).	.750	.751	7-7/8		14
86A	Case Tractor 1949 56 VA-C-H-I-O-S; Chrysler 1940-54 (except 1951-54 8 Cyl.); Chrysler Industrial Engins (except Ind. 10 Diesel and Ind. 11); Chrysler Marine Engines (except M45); De Soto 6 Cyl. 1933-54; Divco Trucks 1938-55 with .859 Piston Pins; Dodge 1935-58 (except D63-2-3, D66-1-2, D67-1-2, D70-71 8 Cyl.); Dodge Trucks with .859 Piston Pins; Ferguson Tractor 1948-57; Kaiser and Frazer 1946-55; Plymouth 6 Cyl. 1935-58 (except P29-1-2-3, P31-1-2-3); Rambler 1950-55; Willys 1954-58 Models 6-22-SW-SD, 6-226 (4WD-4X4), FC170 FWD.	.860		12-1/2	2	
88A	Chevrolet Cars and Trucks 1937-53 (except 115 H.P.)	.866		12-1/2	2	
88A+5	Same as No. 88A	.005 Oversize .871		12-1/2	2	

Honing Sets
FOR PISTON PIN and KING BOLT BUSHINGS



Number		Weight each Lb.	Weight each Oz.
200	**Complete set as illustrated,** consisting of 3 hones with coarse abrasives mounted, 9 coarse refills (3 sets), one set of shims (3), range 3/4" to 1.115". Each tool has 1/8" expansion, 1/16" with the blades resting solid in the grooves and 1/16" more with a set of shims under the blades.	4	12

INDIVIDUAL HONE SETS

Number		Weight each Lb.	Weight each Oz.
*204	.725" to .750" (without shims).		11
205	3/4" to 7/8".		13
206	7/8" to 1".	1	
207	.990" to 1.115".	1	5

*This set is for the Chevrolet 6 King bolts, and any other sizes between .725" and .750"

Individual Hone Sets include 3 coarse abrasives on the hone, 6 coarse refills (2 Sets) and 1 Set of Shims (3). Put up in cardboard box.

201	Coarse Abrasives (1 doz. in package).	3
201F	Fine Abrasives (1 doz. in package)	3
203	Shims, Set of 3.	1
203B	Die cast blades, set of 3.	3

Abrasives, Shims and Die Cast Blades are interchangeable with all hones listed above.

Solid Type Reamers

For Popular Make Cars

KING BOLT BUSHING REAMERS

These reamers have milled flutes on the front end to remove burrs or excess metal and allow the pilot to enter freely. Both ends of the reamer are ground to act as pilots. This insures perfect alignment.

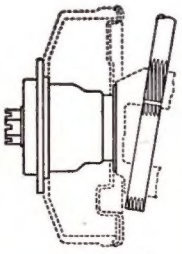
Use Cutting Oil on all Reaming. See our Reamer Cutting Oil described on page 14.

Number		Size Inches	Length Overall Inches	Weight Each Lb.	Weight Each Oz.
68A	All A, B, 6 & V-8 Ford Pass. Cars 1928-53, 1/2, 3/4, 1 Ton Trucks including F1, F2 & F3, 1928-52. Mercury Cars 1939-48 & 1952-53	.8135	14	2	
71	Ford Trucks 1938-47, 1-1/2 & 2 Ton; 1948-58 F4, F500, F600, 1, 1-1/2 & 2 Ton	1.130	14	3	11
72	Ford Trucks F100 & F250, 1953-58	.8605	12-3/4	2	
73	Chevrolet Trucks 1939-58, 3/4, 1, 1-1/2, 2, 2-1/2 Ton, C. O. E., Heavy Duty, Dubl-Duty and School Bus (except 9000 lb. & Tandem Axles). Brockway, G. M. C., International Trucks using 1.109 King Bolts	1.110	14	3	9
74A	Chevrolet: Cars with Ind. Wheel Suspension 1934-54; Corvette 1953-58; 1/2 Ton Trucks 1941-58. G. M. C. 100 Series 1941-58. Packard 1940-56.	.867	12-1/2	2	
78A	Lincoln & Continental 1942-51. Mercury 1949-51. Dodge Trucks using .9365 King Bolts	.938	14-1/2	2	12
82	Chevrolet 1941-58, 3/4, 1, 1-1/2 Ton (except Heavy Duty, Dubl-Duty, C. O. E. & School Bus). G. M. C. Trucks using .921 King Bolts.	.9225	12-3/4	2	5
82+10	Same as No. 82. .010 Oversize.	.9325	12-3/4	2	6
82+20	Same as No. 82. .020 Oversize.	.9425	12-3/4	2	6
84A	Plymouth 1939-56. Dodge 1938-56, DeSoto 1940-56, Chrysler 1940-56; (except 7 & 8 Pass. Sedan, Limo., Estate & Station Wagon). All Kaiser, Frazer & Henry J 1946-55. 1/2, 3/4 & 1 Ton Dodge Trucks using .795 King Bolts.	.7965	14	2	
89A	Buick 1937-56 (except 80 & 90 models). Oldsmobile 1934-56. Pontiac 1941-57.	.863	12-1/2	2	

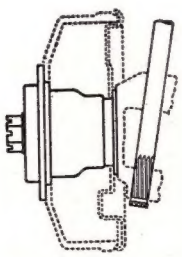
Special sizes (within the above range) will be furnished at an additional NET cost.

Sets of King Bolt Bushing Reamers for reaming Timken and other similar King Bolt assemblies which do not permit the reamer to pass through both bushings.

Individual reamers from sets listed below may be purchased at one-half the price of the set.



FIRST OPERATION
Reaming upper bushing while piloting in lower bushing.

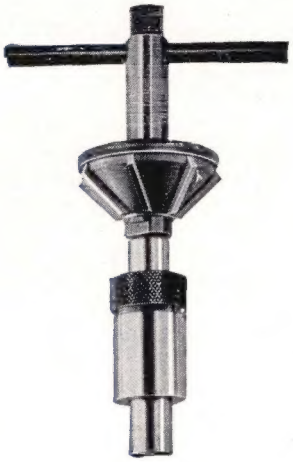


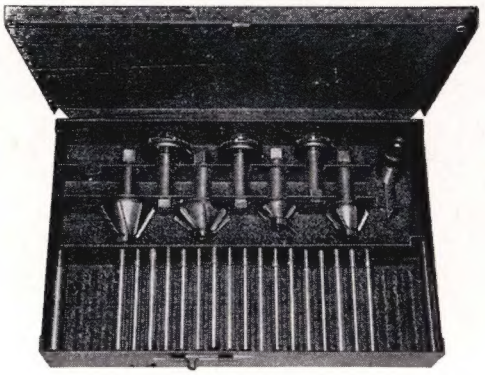
SECOND OPERATION
Reaming lower bushing while piloting in upper bushing.

79	Set of two reamers, No. 79-1 and No. 79-2. For Timken Axles 30000 & 31000 Series. Divco, Mack, Reo, Studebaker, White, Trucks using 1.109 and International using 1.1095 King Bolts	1.1105	14-5/8	7	14
80	Set of two reamers, No. 80-1 and No. 80-2. For Timken Axles FC900, 32000 & 33000 Series. Available, Brockway, Corbitt, Dart, Diamond T, Dodge Trucks, Duplex, Federal, Ford Truck & Bus, G. M. C. Truck & Coach, International, Mack, Reo, White, using 1.234 & G. M. C. using 1.2345 King Bolts.	1.2355	16-1/2	10	14
81	Set of two reamers, No. 81-1 and No. 81-2. For Timken Axles 35000 Series. Autocar, Available, Biederman, Brockway, Corbitt, Dart, Diamond T, Dodge, Duplex, Federal, International, Mack, Reo, Sterling, Ward LaFrance, Trucks using 1.359 King Bolts.	1.3605	16-1/2	13	2
81A	Set of two reamers, No. 81-A-1 and No. 81-A-2. For Timken Axles 36000 Series, also Nos. 16601-2-3-4-5-6-8, 26060-61. Diamond T, Federal, G. M. C. Truck & Coach, International, Kenworth, Mack, Peterbilt, Reo, Sterling, using 1.484 King Bolts.	1.4855	18-1/2	17	8

Inserted Blade Valve Reseating Tools

CANNOT BE USED ON MOTORS HAVING HARDENED VALVE SEAT INSERTS





No. 20 Set

A dependable valve reseating tool sturdily constructed and very simple to operate. The blades can be resharpened or replaced at a nominal cost, making them inexpensive to operate.

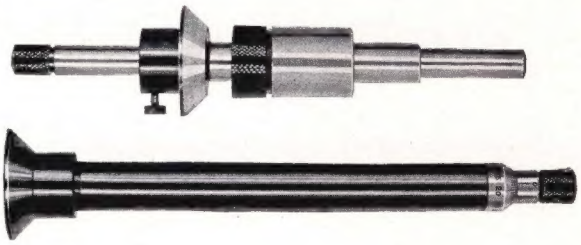
These cutters have blades set at the proper angle and irregularly spaced to give a smooth, shearing cut and prevent chattering. The blades are made of a high grade steel and run through special heat-treating processes to produce extreme hardness. This enables them to cut burnt or glazed surfaces.

Number		Weight Each Lb.	Oz.
No. 20	**General Garage Set,** put up in metal box; contains seven cutters, sizes 1-1/2" 30°, 1-1/2" 45°, 1-1/2" 60° 1-3/4" 30°, 2" 30°, 2" 45°, and 2" 60°; one V-8 Ford Pilot Bushing, eighteen pilots, sizes 5/16", 5/16" plus .001, 21/64", 21/64" plus .001, 11/32", 11/32" plus .001, 11/32" minus .002, 11/32" minus .003, 11/32" minus .004, 3/8", 3/8" plus .001, 3/8" minus .002, 3/8" minus .003, 3/8" minus .004, 25/64", 25/64" plus 001, 7/16", 19/32" and one handle.	10	
No. 21	**General Garage Set, including cutters for low horse power cars,** put up in metal box; contains seven cutters, 1-3/16" 45°, 1-5/32" 30° Solid Type, 1-1/2" 30°, 1-1/2" 45°, 1-3/4" 30°, 2" 30° and 2" 45° Inserted Blade Type; one V-8 Ford Pilot Bushing; one Handle; one stud for Solid Cutters and twenty-three pilots, sizes .250, .275, .279, .281, .295, 5/16", 5/16" plus .001, 21/64", 21/64" plus .001, 11/32", 11/32" plus .001, 11/32" minus .002, 11/32" minus .003, 11/32" minus .004, 3/8", 3/8" plus .001, 3/8" minus .002, 3/8" minus .003, 3/8" minus .004, 25/64", 25/64" plus .001, 7/16" and 19/32".	11	8
No. 11	**For Low Horse Power Cars,** put in cardboard box, contains two Solid Type Cutters, sizes 1-3/16" 45° and 1-5/32" 30°; five pilots, sizes .250, .275, .279, .281 and .295; one Stud and Handle.		11
No. 13D	**For Chevrolet 1935-52,** put up in cardboard box, contains three cutters, sizes 1-1/2" 30°, 1-1/2" 45°, 1-3/4" 30°, 11/32" minus .003 pilot and one handle	1	8
No. 14	**For Chevrolet 1953-58,** put up in cardboard box, contains three cutters, sizes 1-1/2" 45°, 2" 45°, 2" 30°; two pilots, sizes 11/32", 3/8", and one handle.	1	15

MICROMETER GAUGE

FOR FORD VALVES

NO MORE GUESS WORK IN FITTING VALVES



No Thickness Gauge required.

No time wasted in trying the Valve in the Motor.

Does the job in half the usual time and 50% more accurately.

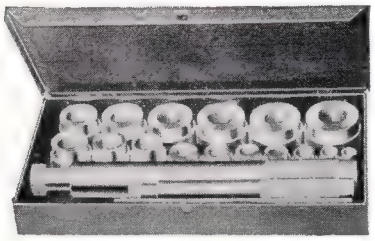
This tool makes fitting valves more profitable and accurate and is a pleasure for the mechanic fitting valves. In using a thickness gauge, he never knows just when he has the proper clearance due to the possibility of kinks or buckles in the thickness gauge. The micrometer is always accurate to the fraction of a thousandths.

No. 131	Complete Set for Fords Model A & B, V-8 1933-47 (except 60 H.P.). Mercury 1939-47. Lincoln Zephyr and all Lincoln including 1947, in cardboard box	1 Lb.	9 Oz.

Improved Drive-M-All Bushing Removing and Inserting Sets

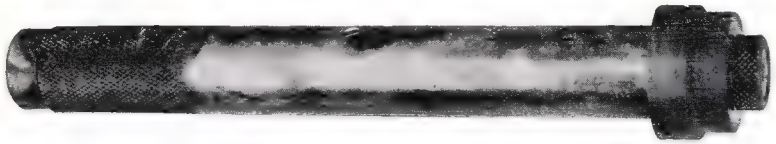
These tools are made of a high grade steel, heat treated and tempered for hard use and long life.

The outside diameters are perfectly true with each other.



Practical bushing removing and inserting sets designed to meet the present day demand.

For All Passenger Car and a Large Percentage of Truck, Bus, Tractor, Farm, Road and Constuction Equipment Bushings.



No. 875A Complete Bushing Removing and Inserting set, in metal box, as illustrated. 4 Lb. 2 oz.

PARTS FOR NO. 875-A SET

Number	Description	Small Diameter Inches	Large Diameter Inches	Weight Each Lb.	Oz.
847	Bushing Adaptor	3/8 —	7/16		¼
849	" "	7/16 —	1/2		½
850	" "	1/2 —	9/16		½
852	" "	9/16 —	5/8		½
853A	" "	39/64 —	43/64		1
		5/8 —	11/16		
854	" "	5/8 —	3/4		1
855	" "	11/16 —	13/16		1
856	" "	47/64 —	55/64		2
		3/4 —	7/8		
857	" "	13/16 —	15/16		2
858	" "	55/64 —	63/64		2
		7/8 —	1		
859	" "	15/16 —	1- 1/16		2
860	" "	1 —	1- 1/8		2½
861	" "	1 1/16 —	1- 3/16		2½
862	" "	1- 1/8 —	1- 1/4		3
862A	" "	1- 3/16 —	1- 5/16		3
863	" "	1- 1/4 —	1- 3/8		4
864	No. 1 Driver (Small)				4
865	No. 2 Driver (Medium).				7
866	No. 3 Driver (large).				15
867	Nut for No. 1 & 2 Driver.				¼
868	Nut for No. 3 Driver.				½

No. 975 Complete Bushing Removing and Inserting Set, in metal box. 5 Lb. 1 Oz.

PARTS FOR NO. 975 SET
HEAVY DUTY DRIVE-M-ALL

Number	Description	Small Diameter Inches	Large Diameter Inches	Weight Each Lb.	Oz.
976	Bushing Adaptor	1- 5/16 —	1- 7/16		4
977	" "	1-11/32 —	1- 1/2		5
978	" "	1- 7/16 —	1- 9/16		6
979	" "	1- 1/2 —	1- 5/8		6
980	" "	1- 9/16 —	1-11/16		6
981	" "	1-19/32 —	1- 3/4		7
982	" "	1- 3/4 —	1- 7/8		9
985	Driver.			1	11
987	Driver Nut.				2

Listed below are a few of the large size Trucks and Tractor bushings this set will handle.

	Bushing Adaptor Size Inches
McCormick-Deering — Piston Pin	1- 5/16
White Truck — Steering Knuckle	1- 5/16
Autocar — Steering Knuckle	1-11/32
Hercules — Piston Pin	1-11/32
International Truck — Piston Pin	1-11/32
Mack Truck — Piston Pin	1-11/32
G. M. C. Truck — Piston Pin	1-11/32
Mack Truck — Piston Pin	1- 7/16
Hercules — Piston Pin	1- 1/2
Caterpillar — Piston Pin	1- 9/16
Mack Truck — Steering Knuckle	1- 9/16
John Deere Tractor & Combine — Piston Pin	1-19/32
International Truck — Steering Knuckle	1-19/32
Caterpillar — Piston Pin	1- 3/4
John Deere Tractor & Combine — Piston Pin	1- 3/4

HARDENED AND GROUND STEEL MANDRELS

Standard Taper: .0005 Per 1".
Small End: 1/8" to 1" Incl. .0005 undersize
Small End: 1-1/16" to 3" Incl. .001 undersize.

Number	Diameter Inches	Length Overall Inches	Weight Each Lb.	Weight Each Oz.
1500	1/8	2-1/2		½
1501	5/32	3		1
1502	3/16	3		1
1503	7/32	3-3/4		1
1504	1/4	3-3/4		1
1505	9/32	4		2
1506	5/16	4		2
1507	11/32	4-1/4		2
1508	3/8	4-1/4		2
1509	13/32	4-1/2		3
1510	7/16	4-1/2		3
1511	15/32	5		4
1512	1/2	5		4
1513	17/32	5-1/4		5
1514	9/16	5-1/4		6
1515	19/32	5-1/2		7
1516	5/8	5-1/2		7
1517	21/32	5-3/4		8
1518	11/16	5-3/4		9
1519	23/32	6		11
1520	3/4	6		12
1521	25/32	6-1/4		13
1522	13/16	6-1/4		14
1523	27/32	6-1/2	1	
1524	7/8	6-1/2	1	1
1525	29/32	6-3/4	1	3
1526	15/16	6-3/4	1	5
1527	31/32	7	1	6
1528	1	7	1	8
1529	1- 1/16	7-1/4	1	12
1530	1- 1/8	7-1/2	2	1
1531	1- 3/16	7-3/4	2	6
1532	1- 1/4	8	2	12
1533	1- 5/16	8-1/4	3	2
1534	1- 3/8	8-1/2	3	8
1535	1- 7/16	8-3/4	3	13
1536	1- 1/2	9	4	5
1537	1- 9/16	9-1/4	4	14
1538	1- 5/8	9-1/2	5	5
1539	1-11/16	9-3/4	6	1
1540	1- 3/4	10	6	9
1541	1-13/16	10-1/4	7	2
1542	1- 7/8	10-1/2	7	14
1543	1-15/16	10-3/4	8	9
1544	2	11	9	6
1546	2- 1/8	11-1/2	10	13
1548	2- 1/4	12	13	4
1550	2- 3/8	12	14	12
1552	2- 1/2	12-1/2	17	
1554	2- 5/8	12-1/2	19	
1556	2- 3/4	13	21	
1558	2- 7/8	13	23	
1560	3	13	25	

These Mandrels are made of a High Quality Tool Steel, Heat-Treated, and accurately ground to size. They are slightly tapered, and the size is marked on the large end. Careful driving will not injure them. We suggest a soft metal or rawhide hammer be used.

All sizes and dimensions not listed above are special and prices will be furnished on request.

HAND REAMERS

CARBON STEEL

Straight Shank **Straight Flute**

Number	Diameter Inches	Length of Flute Inches	Length Overall Inches	Weight Each Lb.	Weight Each Oz.
1300	1/8	1- 1/2	3		½
1301	9/64	1- 5/8	3-1/4		½
1302	5/32	1- 5/8	3-1/4		½
1303	11/64	1- 3/4	3-1/2		½
1304	3/16	1- 3/4	3-1/2		½
1305	13/64	1- 7/8	3-3/4		1
1306	7/32	1- 7/8	3-3/4		1
1307	15/64	2	4		1
1308	1/4	2	4		1
1309	17/64	2- 1/8	4-1/4		1
1310	9/32	2- 1/8	4-1/4		1
1311	19/64	2- 1/4	4-1/2		1
1312	5/16	2- 1/4	4-1/2		2
1313	21/64	2- 3/8	4-3/4		2
1314	11/32	2- 3/8	4-3/4		2
1315	23/64	2- 1/2	5		2
1316	3/8	2- 1/2	5		2
1317	25/64	2- 5/8	5-1/4		2
1318	13/32	2- 5/8	5-1/4		2
1319	27/64	2- 3/4	5-1/2		3
1320	7/16	2- 3/4	5-1/2		3
1321	29/64	2- 7/8	5-3/4		3
1322	15/32	2- 7/8	5-3/4		3
1323	31/64	3	6		4
1324	1/2	3	6		4
1326	17/32	3- 1/8	6-1/4		5
1328	9/16	3- 1/4	6-1/2		5
1330	19/32	3- 3/8	6-3/4		7
1332	5/8	3- 1/2	7		8
1334	21/32	3-11/16	7-3/8		9
1336	11/16	3- 7/8	7-3/4		10
1338	23/32	4- 1/16	8-1/8		12
1340	3/4	4- 3/16	8-3/8		14
1342	25/32	4- 3/8	8-3/4		15
1344	13/16	4- 9/16	9-1/8	1	1
1346	27/32	4-11/16	9-3/8	1	3
1348	7/8	4- 7/8	9-3/4	1	5
1350	29/32	5	10	1	8
1352	15/16	5- 1/8	10-1/4	1	10
1354	31/32	5- 5/16	10-5/8	1	12
1356	1	5- 7/16	10-7/8	1	14
1358	1- 1/16	5- 5/8	11-1/4	2	5
1360	1- 1/8	5-13/16	11-5/8	2	11
1362	1- 3/16	6	12	3	2
1364	1- 1/4	6- 1/8	12-1/4	3	9
1366	1- 5/16	6- 1/4	12-1/2	3	14
1368	1- 3/8	6- 5/16	12-5/8	4	5
1370	1- 7/16	6- 7/16	12-7/8	4	12
1372	1- 1/2	6- 1/2	13	5	6
1374	1- 9/16	6- 1/2	13	5	13
1376	1- 5/8	6- 1/2	13	6	5
1378	1-11/16	6- 3/4	13-1/2	6	15
1380	1- 3/4	6- 3/4	13-1/2	7	10
1382	1-13/16	6- 3/4	13-1/2	8	1
1384	1- 7/8	7	14	8	13
1386	1-15/16	7	14	9	7
1388	2	7	14	10	2

All sizes and dimensions not listed above are special and prices will be furnished on request.

Sets are available at the combined list prices of the reamers required plus the cost of a hardwood case.

Use Cutting Oil on all Reaming. See Reamer Cutting Oil described on page 14.

Repairman's Taper Reamers

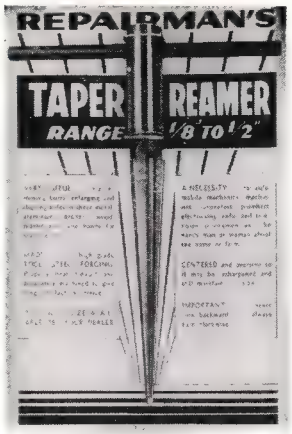
VERY USEFUL . . . for removing burrs, enlarging and aligning holes in sheet metal, aluminum, bronze, wood, plastic etc.; also handy for starting taps.

A NECESSITY . . . for automobile mechanics, machinists, carpenters, plumbers, electricians, radio and television servicemen and the handy man or woman about the home or farm.

MADE . . . of high grade TOOL STEEL. Properly heat treated and accurately machined to give long satisfactory service.

SUFFICIENTLY OVERSIZE . . so they may be resharpened and still maintain full range.

CONSTRUCTED . . . with round shanks making them adaptable for use with an electric drill (remove T-handle on small size). Large size is also squared for driving with a wrench or socket and drilled for T-handle turning.



No. 56
Range 1/8" to 1/2"
Length Overall 5-5/8"

No. 57
Range 7/16" to 1"
Length Overall 6-3/4"

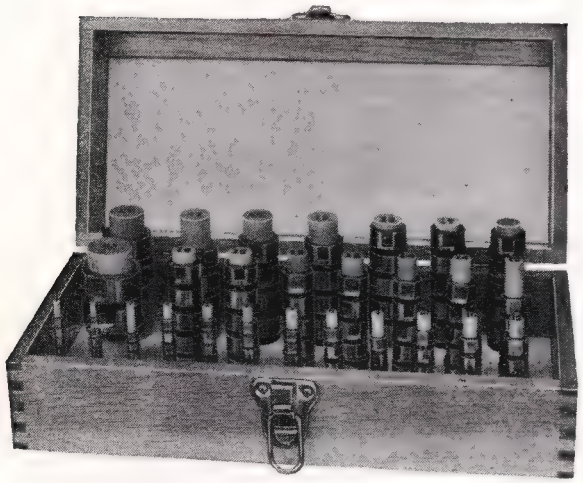
Number

56 reamer is mounted on a display card and packed 12 to a box. 2 Lb. 14 Oz.
57 reamer is individually packed in boxes. 11 Oz.
58 T-handle for #57 reamer only (individually wrapped). 2 Oz.

REPLACEMENT KITS OF NUTS AND COLLARS FOR ADJUSTABLE REAMERS

With a Job To Be Done —— A Crippled Reamer Is No Fun

Keep your reamer customer happy by supplying him with nuts and collars from these handy kits.



No. 225 Kit

KITS CONSIST OF THE FOLLOWING

Peg No.	For Reamer Number	Thread Size	No. 225 Qty. of Nuts and Collars in Kit	No. 225A Qty. of Nuts and Collars in Kit
1	8A, 395	10-32	5 each	3 each
2	7A, 396	10-32	5 "	3 "
3	6A, 397	1/4-28	5 "	3 "
4	5A, 398	1/4-28	5 "	3 "
5	4A, 399	9/32-24	5 "	3 "
6	3A, 400	5/16-24	5 "	3 "
7	2A, 401	5/16-24	5 "	3 "
8	A	5/16-24	5 "	3 "
9	1B, 0L	5/16-24	5 "	3 "
10	2B, 1L	5/16-24	5 "	2 "
11	B, 3B, 2L	3/8-24	5 "	3 "
12	C, 4B, 3L, 4L	7/16-20	5 "	3 "
13	D, 5B, 5L	1/2-20	5 "	3 "
* 14	E, 6B, 6L, 7L	9/16-18	10 "	5 "
* 15	F, 7B, 8L	5/8-18	10 "	5 "
* 16	G, 8B, 9L	11/16-16	10 "	5 "
* 17	H, 9B, 10L	3/4-16	10 "	5 "
18	10B, 11L, 12L	13/16-16	5 "	3 "
19	11B, 13L	7/8-14	4 "	2 "
20	I, 12B, 14L	7/8-14	4 "	3 "
21	J, 13B, 15L	7/8 14	4 "	1 "
22	K, 14B, 16L	1-14	2 "	1 "
23	L, 15B, 17L	1-3/16-12	2 "	1 "

* There are two of these Peg Numbers in the kits and 5 each of the same size nuts and collars on each Peg in the No. 225 Kit.

Number

225 Kit of 252 pieces assorted nuts and collars, in wood case. 6 Lb. 4 Oz.
225A Kit of 136 pieces assorted nuts and collars, in wood case. 5 Lb. 2 Oz.
225B Wood case only. 4 Lb. 1 Oz.

When either complete kit is purchased there is no charge for the wood case.

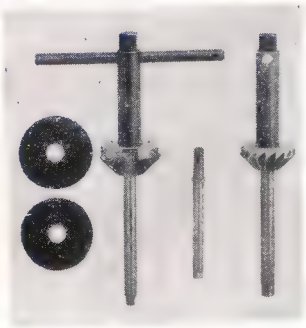
The nuts and collars are arranged on numbered pegs and a size chart included with each kit gives the corresponding reamer numbers for which the nut or collar is to be used.

One size nut or collar will often fit several different sizes or types of reamers. This eliminates carrying in stock nuts and collars for each size or type of reamer, keeping your stock down to a minimum.

Listed below are a few of the popular reamers these nuts and collars will fit.

L. O. BEARD TOOL COMPANY
CAL-VAN MACHINE PRODUCTS, INC.
CLEVELAND TWIST DRILL CO. (except sizes 7A, 6A, 5A, 2A, B, L, M, N, and O).
K. O. LEE COMPANY
MORSE TWIST DRILL & MACHINE CO. (except sizes 4A, 3A, 2A, A, M, N, and O).
NATIONAL MACHINE & TOOL COMPANY
NEW BRITAIN MACHINE COMPANY
OWATONNA TOOL COMPANY
REIFF AND NESTOR COMPANY
SNAP-ON TOOLS CORPORATION
VEDOE-PETERSON CO. (except Size A)
ZOERMAN-CLARK MFG. COMPANY

SMALL GASOLINE ENGINE SPECIAL TOOLS



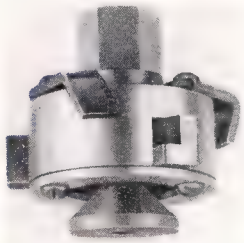
FOR BRIGGS & STRATTON, CLINTON, CONTINENTAL, CUNNINGHAM, CUSHMAN, FAIRBANKS MORSE, GLADDEN, JACOBSEN, KOHLER, LAUSON, ONAN, PIONEER-GEN-E, RED SEAL, REO, WISCONSIN & OTHERS.

VALVE SEAT RESEATERS

For low horsepower engines having 45° valve seats ⅝" to 1-¼" diameters.

A very practical and inexpensive way to reseat both the intake and exhaust valve seats on these light duty engines used on Power Lawn Mowers, Washing Machines, Pumps, Generators, Garden Tractors, etc.

Number		Weight Each Lb.	Oz.
565	Set consists of an 1-1/4"—45° Abrasive Cutter with coarse abrasive (for hard exhaust seats), one dozen Abrasives (6 coarse & 6 fine), also an 1-3/16"—45° Solid Type Cutter (used on the intake cast iron seats), one each 1/4", 9/32" and 5/16" Pilots & one Handle, in cardboard box.		10
567	Set consists of an 1-1/4"—45° Abrasive Cutter with coarse Abrasive mounted & 6 extra coarse Abrasives, one Handle & three Pilots, sizes 1/4", 9/32" & 5/16". (Can be used on hand or Soft Seats), in cardboard box.		7
568	Set consists of an 1-3/16"—45° Solid Type Cutter, one Stud, one Handle & three Pilots, sizes, 1/4", 9/32" & 5/16". (For Cast Iron seats only), in cardboard box.		6
570	1/4" Pilot.		1
571	9/32" Pilot.		1
572	5/16" Pilot.		2
574	One Dozen Coarse Abrasives, 1-1/4"—45°.		1
575	One Dozen Fine Abrasives, 1-1/4"—45°.		1



SMALL BORE CYLINDER RIDGE REAMER

No. 150 will remove the unworn ridge in cylinders with diameters from 2" to 3". Three cutting blades, each piloted to prevent overcutting, accurately and quickly remove the unworn ridge, leaving no offset or shoulder in the cylinder wall in cardboard box. 1

No. 160 Set of 3 blades for No. 150. 3

CLINTON ENGINE BEARING REAMERS

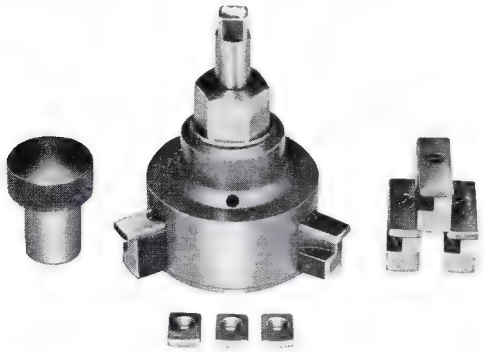
Number	Size Inches	No. of Blades	Length Overall Inches Reamer	Blades		
6B	.730 - 13/16	7	12-1/4	2		
	Used to ream Sleeve Bearing on Bearing Plates on 300 Series Engines.					14
7B	13/16 - 7/8	7	12-1/4	2		
	Used to ream Main Bearings on 700, 800 and 1100 Series Engines.				1	1

SOLID TYPE VALVE GUIDE REAMERS

25L	1/4	6-1/2	2
28L	9/32	7-1/2	3
1000	5/16	7-1/2	3
995	Set of 3 reamers, 1/4", 9/32", 5/16", put up in cardboard box.		6

Universal Cylinder Ridge Reamer

The No. 173 IMPROVED UNIVERSAL CYLINDER RIDGE REAMER removes the unworn ridge from the cylinders of practically all cars, trucks and tractors with bores 2-9/16" to 4-7/8". The supporting blade strips are mounted on the blades and adjust with the blades so that it is not necessary to remove the head studs from the block. The supporting blade strips are held firmly against the top of the cylinder block by pressing down on the knob.



In cars with recessed cylinder blocks such as Buick, Chevrolet and Nash, the blade strips are replaced by filler strips and the tool rests on top of the piston while reaming.

Each blade is piloted making it impossible to overcut or leave a step or shoulder in the cylinder wall.

Use Cutting Oil on all Reaming. See our Reamer Cutting Oil described below.

		Weight each Lb.	Oz.
No. 173	**SET AS ILLUSTRATED** contains two sets of three blades with strips to ream 2-9/16" to 3-3/4" and 3-3/4" to 4-7/8", one set of three filler strips and operating knob in metal box.	4	6
No. 171	Set for small bore cars, contains one set of three blades with strips, cutting range 2-3/16" to 3-3/16", one set of three filler strips and operating knob, in metal box.	3	13
No. 173A	Set contains one set of three blades with strips, cutting range 2-9/16" to 3-3/4", one set of three filler strips and operating knob, in metal box.	4	1
No. 173B	Set contains one set of three blades with strips, cutting range 3" to 4-3/16", one set of three filler strips and operating knob, in metal box.	4	3

Deduct $2.00 from prices and 1 Lb. from weight shown if desired in cardboard box instead of metal box.

PARTS FOR ABOVE SETS

No. 180	Set of three blades with strips, cutting range 2-3/16" to 3-3/16", for number 171 ridge reamer.	6
No. 181	Set of three blades with strips, cutting range 2-9/16" to 3-3/4", for number 173 and 173A ridge reamer.	6
No. 182	Set of three blades with strips, cutting range 3-3/4" to 4-7/8", for number 173 ridge reamer.	9
No. 183	Set of three blades with strips, cutting range 3" to 4-3/16", for number 173B ridge reamer.	8
	Set of three blade strips, and 3 screws, giving cutting range.	1
	Set of three filler strips, and 3 screws, give cutting range.	1
No. 197	Operating Knob.	6

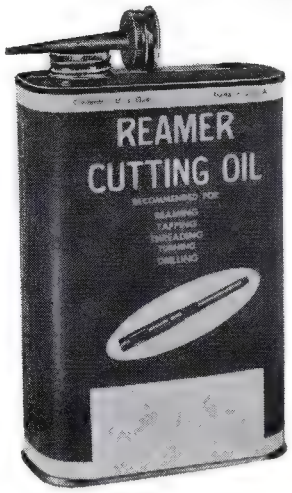
TRUCK, TRACTOR AND BUS SIZE

No. 174	Set contains one set of three blades with strips, cutting range 4-7/8" to 6-7/16", one set of 3 filler strips and operating knob, in cardboard box.	9	2

PARTS FOR NUMBER 174 SET ONLY

No. 178	Set of three blades with strips, cutting range 4-7/8" to 6-7/16", for number 174 ridge reamer.		12
No. 179	**Special set of 3 blades with strips, cutting range 6-7/16" to 8", for number 174 ridge reamer.**	1	1
	Set of three blade strips and three screws, give cutting range.		2
	Set of three filler strips and three screws, give cutting range.		2
No. 198	Operating Knob.		8

Reamer Cutting Oil



RECOMMENDED FOR REAMING — TAPPING — THREADING — TURNING — DRILLING

A MUST WHEN REAMING STEEL

A few drops of reamer cutting oil distributed evenly over the surface to be reamed or machined will save many times its cost on repairs and resharpening of your cutting tools.

Equally important when reaming the tough alloy bronze bushings now used on most cars and trucks.

Prevents grabbing, galling, chattering and squealing.

When using this oil you will be amazed how freely your cutting tools operate, producing a smoother, longer life bearing surface.

It also prolongs the life of your cutting tools and saves you considerable time and effort doing the job.

Number		Weight each Lb.
24	Reamer Cutting Oil with squirt spout. Packed 12 one qt. cans to a carton.	29
25	Reamer Cutting Oil 1 gallon can	9
26	Reamer Cutting Oil 5 gallon can	43

Hydraulic Brake Cylinder Hone

Simple but sturdy construction makes it easy and inexpensive to operate and assures long, satisfactory service.

Each of the two small bodies in the number 925 Set has one set of three blade slots. The one body has shallow slots and the other body has the slots milled 1/32" deeper. The medium and large bodies each have two sets of three slots; one set of three milled shallow and the other set of three milled 1/32" deeper.

One set of blades expands 1/16 of an inch in each set of slots, or moving them from one set of slots to another gives 1/8 of an inch expansion; using the three sets of blades in this manner gives 3/16 of an inch expansion in each of the two small bodies and 3/8 of an inch expansion in the medium and large size bodies so that the set illustrated with the four bodies has a range from 3/4" to 1-7/8" which covers practically all pleasure cars and trucks.

The abrasives are interchangeable with each size blade and the blades are interchangeable with each size body. This eliminates buying and having on hand a large assortment of abrasives.

The abrasive cloth is a special type adaptable to this kind of work and is mounted on a metal back, making it very rigid and practical for long service. It is furnished in two grades, coarse and fine.

Kerosene Should Be Used Freely When Honing. It Will Prevent Clogging and Prolong the Life of the Abrasives. When Adjusting, Set Flattened Nut with Wrench to Prevent Hone from Chattering and Blades Working Loose.

No. 925 Set, Range 3/4" to 1-7/8", contains four bodies, three sets of three blades (small, medium and large), with abrasives mounted, eighteen extra abrasives (nine coarse and nine fine); special 1" cup screw to be used on medium size body when honing step bore cylinders, and one each solid and flexible driving shafts adaptable to 1/4" or 1/2" electric drill, put up in metal box. 4 Lb. 6 Oz.

INDIVIDUAL HONE SETS WITHOUT FLEXIBLE DRIVING SHAFT

		Weight Each Lb.	Oz
No. S876	11/16" to 3/4" for use on trucks equipped with Wagner Hi Tork Brakes, having 11/16" diameter cylinders. Put up in cardboard box. Set contains one complete body (Deep Slots), one set of 3 small die cast blades with coarse abrasives mounted, and 3 extra fine abrasives and 1 adaptor.		5
***No. 876**	3/4" to 1-1/8", put up in cardboard box (Contains 2 bodies).		11
***No. 877**	1-1/8" to 1-1/2", includes special 1" cup screw for use in honing step bore cylinders, put up in cardboard box.		14
***No. 878**	1-1/2" to 1-7/8", put up in cardboard box.	1	4
	***Numbers 876 (contains two complete bodies), 877, 878 sets** listed above contain 1 complete body, 3 sets of 3 blades (small, medium and large) mounted with coarse abrasives and 3 extra fine abrasives.		
****No. 879**	1-7/8" to 2-1/4", put up in cardboard box.	2	1
****No. 880**	2-1/4" to 2-5/8", put up in cardboard box.	2	15
	****Numbers 879 and 880 Sets** listed above contain 1 complete body, 3 sets of 5 blades (small, medium and large) with coarse abrasives mounted and 5 extra fine abrasives.		

INDIVIDUAL PARTS

No. S876BD	11/16" to 3/4" Hone Body (Deep Slots), with nut, collar, cup screw and special adaptor.		4
No. 876BD	3/4" - 7/8" - 1" hone body with nut, collar and cup screw (Deep Slots). ..		3
No. 876BS	13/16" - 15/16" - 1-1/16" hone body with nut, collar & cup screw (Shallow Slots).		3
No. 877B	1-1/8" to 1-1/2" hone body with nut, collar, cup screw and special 1" cup screw for use when honing step bore cylinders.		8
No. 878B	1-1/2" to 1-7/8" hone body with nut, collar and cup screw.	1	
No. 879B	1-7/8" to 2-1/4" hone body with nut, collar and cup screw.	1	10
No. 880B	2-1/4" to 2-5/8" hone body with nut, collar and cup screw.	2	7
No. 899C	One dozen coarse hone abrasives.		2
No. 899F	One dozen fine hone abrasives.		2
No. 896	Set of three small die cast blades.		2
No. 897	Set of three medium die cast blades.		2
No. 898	Set of three large die cast blades.		2
No. 919	Solid Drive Shaft.		2
No. 920	Flexible Driving Shaft.		4

BEARD®

PRECISION AUTOMOTIVE TOOLS REPRESENT QUALITY, SERVICE, DEPENDABILITY

25M—3-59

Printed in U.S.A.

L. O. BEARD TOOL CO.

LANCASTER, PA. U.S.A.

CATALOG 59 PRICES EFFECTIVE APRIL 15, 1959

Prices Shown Are Dealer's Net F.O.B. Factory at Lancaster, Pennsylvania

These Prices Supersede All Previous Catalog Prices and Are Subject to Change Without Notice

NOTE: Items in HEAVY TYPE Denote Most Popular Numbers

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REPAIR PARTS FOR REAMERS—DEALER NET

Reamer Number	Blades: No. Per Set	Blades: Carbon Steel Set	Blades: High Speed Set	Nuts Each	Collars Each	Bushings Each
8A & 395	4	$ 1.40	$ 3.60	$ .45	$ .25	$ —
7A & 396	4	1.40	3.60	.45	.25	—
6A & 397	4	1.40	3.60	.45	.25	—
5A & 398	4	1.40	3.60	.45	.25	—
4A & 399	4	1.40	3.60	.45	.25	—
3A & 400	6	2.40	5.40	.45	.25	—
2A & 401	6	2.40	5.40	.45	.25	—
A	6	2.40	5.40	.45	.25	1.20
1B & OL	5	2.00	4.50	.45	.25	1.20
2B & IL	6	2.40	5.40	.45	.25	1.20
B, 3B & 2L	6	2.40	5.40	.45	.25	1.20
C, 4B, 3L & 4L	7	2.80	6.30	.45	.25	1.20
D, 5B & 5L	7	2.80	6.65	.45	.25	1.20
E, 6B, 6L & 7L	7	3.15	7.00	.45	.25	1.20
F, 7B & 8L	7	3.15	7.00	.45	.25	1.25
G, 8B & 9L	7	3.15	7.35	.45	.25	1.35
H, 9B & 10L	7	3.15	7.70	.45	.25	1.60
10B, 11L & 12L	7	3.15	7.70	.45	.25	1.60
11B & 13L	7	3.15	7.70	.45	.25	1.60
I, 12B & 14L	7	3.50	9.10	.55	.30	1.90
J, 13B & 15L	7	3.85	9.10	.55	.30	2.45
K, 14B & 16L	7	4.55	10.50	.70	.40	3.10
L, 15B & 17L	7	4.90	12.25	.80	.50	3.70
15BA	7	6.65	12.25	1.10	.70	4.25
M	7	8.05	16.80	1.10	.70	4.40
N	7	11.90	23.10	1.35	1.10	5.15
O	7	14.00	30.80	1.75	1.30	5.25

RESHARPENING CHARGES FOR REAMERS

CARBON STEEL

	Net Each
Adjustable & Solid Type, Our Make, to ½" inclusive	$1.40
Adjustable & Solid Type, Our Make, above 1/2" to 1-1/2" incl.	1.80
Adjustable & Solid Type, Our Make, above 1-1/2"	2.60
Adjustable & Solid Type, Not Our Make, to 1/2" inclusive	1.60
Adjustable & Solid Type, Not Our Make, above 1/2" to 1-1/2" inclusive	2.20
Adjustable & Solid Type, Not Our Make, above 1-1/2"	3.00
Spiral Expansion Reamers to 1-½" inclusive	2.50
Spiral Expansion Reamers above 1-1/2"	3.65
Repairman's Taper Reamer, 1/8" to 1/2"	.50
Repairman's Taper Reamer, 7/16" to 1"	.95

HIGH SPEED STEEL

All types, adjustable, our make, up to 1" inclusive	2.25
All types, adjustable, our make, above 1"	3.10

Resharpening charges for Cylinder Ridge Reamer Blades, per set of 3. **Dealer Net.** 2.25

PAGE 2

PRECISION PILOT REAMERS

		Carbon Steel	High Speed Steel
1B	7/16 - 1/2	$ 7.50	$ 9.00
2B	1/2 - 9/16	7.60	9.55
3B	9/16 - 5/8	7.90	10.10
4B	5/8 - 11/16	8.20	10.65
5B	11/16 - 3/4	8.50	11.20
6B	.730 - 13/16	8.90	11.75
7B	13/16 - 7/8	9.20	12.30
8B	.860 - 15/16	9.50	12.85
9B	.915 - 1	9.90	13.40
10B	.985 - 1- 1/16	10.30	13.95
11B	1- 1/16 - 1- 1/8	10.70	14.50
12B	1- 1/8 - 1- 1/4	12.20	17.65
13B	1- 1/4 - 1- 3/8	13.70	19.75
14B	1- 3/8 - 1- 1/2	15.40	21.85
15B	1- 1/2 - 1- 5/8	17.60	23.95
15BA	1- 5/8 - 1-13/16	21.75	26.15

Reamer Sets

16B	7/16 - 11/16	32.20	41.30
17B	11/16 - 1- 1/8	71.80	94.75

Set Box only to hold any 11 reamers except No. 15BA **$8.75.**

PAGE 3

Extra Long Aligning Reamers

Adjustable Type

0L	7/16 - 1/2	11.50	14.30
1L	1/2 - 9/16	11.90	14.80
2L	9/16 - 5/8	12.30	15.30
3L	5/8 - 11/16	12.70	15.80
4L	21/32 - 23/32	13.10	16.30
5L	11/16 - 3/4	13.50	16.80
6L	3/4 - 13/16	13.90	17.30
7L	25/32 - 27/32	14.30	17.80
8L	13/16 - 7/8	14.70	18.30
9L	7/8 - 15/16	15.10	18.80
10L	15/16 - 1	15.50	19.30
11L	1 - 1- 1/16	15.90	19.80
12L	1- 1/32 - 1- 3/32	16.30	20.30
13L	1- 1/16 - 1- 1/8	16.70	20.80
14L	1- 1/8 - 1- 1/4	18.90	23.55
15L	1- 1/4 - 1- 3/8	21.00	26.30
16L	1- 3/8 - 1- 1/2	23.10	29.05
17L	1- 1/2 - 1- 5/8	25.20	31.80
19L		88.10	108.30

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Solid Type Aligning Reamers

Stock No.		Carbon Steel	High Speed Steel
25L	1/4	$ 2.75	
28L	9/32	3.00	
29L	5/16	3.00	
29LB	3/8	3.35	
29LC	7/16	3.55	
30L	1/2	4.00	
31L	9/16	4.25	
32L	5/8	4.50	
33L	21/32	4.75	
21LS	Set	18.55	

Special sizes (within the range shown) will be furnished at **$2.00** net above the cost of the next larger size reamer listed.

Page 4

ADJUSTABLE REAMERS

Individual Reamers

Stock No.		Carbon Steel	High Speed Steel
8A	1/4 - 9/32	4.80	7.80
7A	9/32 - 5/16	4.80	7.80
6A	5/16 - 11/32	4.80	7.80
5A	11/32 - 3/8	4.80	7.80
4A	3/8 - 13/32	4.80	7.80
3A	13/32 - 7/16	5.10	8.65
2A	7/16 - 15/32	5.10	8.65
A	15/32 - 17/32	5.35	9.50
B	17/32 - 19/32	5.35	9.50
C	19/32 - 21/32	5.60	10.20
D	21/32 - 23/32	5.60	10.50
E	23/32 - 25/32	5.90	11.00
F	25/32 - 27/32	5.90	11.50
G	27/32 - 15/16	6.50	12.00
H	15/16 - 1- 1/16	6.90	13.35
I	1- 1/16 - 1- 3/16	8.30	14.90
J	1- 3/16 - 1-11/32	9.50	17.00
K	1-11/32 - 1-17/32	11.90	21.25
L	1-17/32 - 1-25/32	13.65	25.50
M	1-25/32 - 2- 7/32	20.65	33.60
N	2- 7/32 - 2- 3/4	34.40	56.40
O	2- 3/4 - 3-11/32	48.10	78.90

INDIVIDUAL PILOTS

Stock No.		Dealer Net
A	15/32 - 17/32	2.45
B	17/32 - 19/32	2.45
C	19/32 - 21/32	2.45
D	21/32 - 23/32	2.60
E	23/32 - 25/32	2.60
F	25/32 - 27/32	2.85
G	27/32 - 15/16	2.85
H	15/16 - 1- 1/16	3.15
I	1- 1/16 - 1- 3/16	3.45
J	1- 3/16 - 1-11/32	4.50
K	1-11/32 - 1-17/32	5.50
L	1-17/32 - 1-25/32	6.40
M	1-25/32 - 2- 7/32	9.95
N	2- 7/32 - 2- 3/4	14.00
O	2- 3/4 - 3-11/32	18.15

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ADJUSTABLE REAMERS WITH PILOTS ATTACHED

Stock No.		Carbon Steel	High Speed Steel
A	15/32 - 17/32	$ 7.80	$11.95
B	17/32 - 19/32	7.80	11.95
C	19/32 - 21/32	8.05	12.65
D	21/32 - 23/32	8.20	13.10
E	23/32 - 25/32	8.50	13.60
F	25/32 - 27/32	8.75	14.35
G	27/32 - 15/16	9.35	14.85
H	15/16 - 1- 1/16	10.05	16.50
I	1- 1/16 - 1- 3/16	11.75	18.35
J	1- 3/16 - 1-11/32	14.00	21.50
K	1-11/32 - 1-17/32	17.40	26.75
L	1-17/32 - 1-25/32	20.05	31.90
M	1-25/32 - 2- 7/32	30.60	43.55
N	2- 7/32 - 2- 3/4	48.40	70.40
O	2- 3/4 - 3-11/32	66.25	97.05

SETS

Reamers, Pilots, Reamers with Pilots attached

Stock No.		Carbon Steel	High Speed Steel
1	15/32 - 1- 1/16	$ 51.10	$ 91.55
2	1- 1/16 - 1-25/32	47.35	82.65
3	**15/32 - 1- 1/16**	**74.75**	**115.20**
4	15/32 - 1- 1/16	21.40	——
5	1- 1/16 - 1-25/32	19.85	——
7P	15/32 - 1- 3/16	86.25	133.30
A7	**1/4 - 15/32**	**35.00**	**57.10**
8	15/32 - 1-25/32	98.95	174.70
8P	15/32 - 1-25/32	145.40	221.15

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VALVE GUIDE REAMERS

Adjustable Blade Type

Stock No.		Carbon Steel	High Speed Steel
395	1/4 - 9/32	5.95	8.95
396	9/32 - 5/16	5.95	8.95
397	**5/16 - 11/32**	5.95	8.95
398	**11/32 - 3/8**	5.95	8.95
399	**3/8 - 13/32**	5.95	8.95
400	13/32 - 7/16	6.25	10.15
401	7/16 - 15/32	6.25	10.15
394	**1/4 - 15/32**	45.30	68.10

Extension Shanks Only

Stock No.		Dealer Net
385	1/4	1.15
386	9/32	1.15
387	5/16	1.15
388	11/32	1.15
389	3/8	1.15
390	13/32	1.15
391	7/16	1.15
384	1/4 - 7/16	8.05

Solid Type

Stock No.		Dealer Net
1000	**5/16**	**3.00**
1001	21/64	3.25
1002	**11/32**	**3.25**
1002A	23/64	3.25
1003	**3/8**	**3.35**
1004	25/64	3.35
1004A	.397	3.45
1005	13/32	3.45
1005A	27/64	3.45
1006	**7/16**	**3.55**
1007	29/64	3.55
1007A	15/32	3.55

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Stock No.		Carbon Steel
1007B	31/64	$ 3.75
1008	**1/2**	3.75
1009	33/64	3.75
1015	**Set**	18.90
1016	"	15.15

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SPECIAL OVERSIZE REAMERS

For Engines With Non-Removable Valve Guides

Stock No.		Dealer Net
FC48	**Set**	**12.95**
FC3	**.347**	**3.65**
FC15	**.359**	**3.65**
FC30	**.374**	**3.65**
FT48	**Set**	**14.00**
FT3	**.441**	**4.00**
FT15	**.453**	**4.00**
FT30	**.468**	**4.00**
CH48	**Set**	**13.55**
CH3	**.3775**	**3.85**
CH15	**.3895**	**3.85**
CH30	**.4045**	**3.85**
CH50	**Set**	**13.55**
CH5	**.3795**	**3.85**
CH15	**.3895**	**3.85**
CH30	**.4040**	**3.85**
1004A	**.397**	**3.45**

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SOLID TYPE REAMERS

Piston Pin Bushing

Stock No.		Carbon Steel	High Speed Steel
65	.750 - .751	6.50	
86A	.860	6.50	
88A	.866	6.50	
88A+5	.871	6.50	

Special sizes in the Solid Type (within the range shown) will be furnished at **$2.50** net above the cost of the next larger size reamer listed.

HONING SETS

Piston Pin & King Bolt Bushing

Stock No.		Dealer Net
200	3/4 - 1.115	19.75
204	.725 - .750	4.75
205	3/4 - 7/8	4.90
206	7/8 - 1	5.00
207	.990 - 1.115	5.25

Parts

Stock No.		Dealer Net
201	Abrasives	2.10
201F	"	2.10
203	Shims	.60
203B	D-C Blades	1.50

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Solid Type Reamers King Bolt Bushing

Stock No.		Carbon Steel Dealer Net
68A	.8135	$ 6.90
71	1.130	9.50
72	.8605	6.35
73	1.110	9.75
74A	.867	6.60
78A	.938	8.15
82	.9225	7.00
82+10	.9325	7.00
82+20	.9425	7.00
84A	.7965	6.50
89A	.863	6.50

Special sizes (within the range shown) will be furnished at $2.50 net above the cost of the next larger size reamer listed.

Reamer Sets

79	1.1105	20.80
80	1.2355	27.20
81	1.3605	33.90
81A	1.4855	43.00

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INSERTED BLADE VALVE RESEATING TOOLS

20	Set	32.20
21	"	34.45
11	"	6.60
13D	"	6.80
14	"	7.40

Micrometer Gauge

131		9.50

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Drive-M-All Bushing Removing and Inserting Sets

875A	Set	7.95

Parts for No. 875A Set.

847	3/8 - 7/16	.30
849	7/16 - 1/2	.30
850	1/2 - 9/16	.30
852	9/16 - 5/8	.30
853A	39/64 - 43/64 - 5/8 - 11/16	.30
854	5/8 - 3/4	.30
855	11/16 - 13/16	.40
856	47/64 - 55/64 - 3/4 - 7/8	.40
857	13/16 - 15/16	.40
858	55/64 - 63/64 - 7/8 - 1	.40
859	15/16 - 1-1/16	.40
860	1 - 1-1/8	.40
861	1-1/16 - 1-3/16	.50
862	1-1/8 - 1-1/4	.50
862A	1-3/16 - 1-5/16	.50
863	1-1/4 - 1-3/8	.60
864		.60
865		.90
866		1.70
867		.30
868		.35

Heavy Duty Set

975	Set	9.90

Parts for No. 975 Set

976	1 - 5/16 - 1-7/16	1.00
977	1-11/32 - 1-1/2	1.05

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978	1 - 7/16 - 1 - 9/16	$ 1.10
979	1 - 1/2 - 1 - 5/8	1.25
980	1 - 9/16 - 1-11/16	1.30
981	1-19/32 - 1 - 3/4	1.40
982	1 - 3/4 - 1 - 7/8	1.55
985		2.85
987		.60

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Hardened and Ground Steel Mandrels

1500	1/8	Mandrel	2.80
1501	5/32	"	2.80
1502	3/16	"	2.80
1503	7/32	"	2.80
1504	1/4	"	2.80
1505	9/32	"	3.10
1506	5/16	"	3.10
1507	11/32	"	3.30
1508	3/8	"	3.30
1509	13/32	"	3.60
1510	7/16	"	3.60
1511	15/32	"	3.80
1512	1/2	"	3.80
1513	17/32	"	4.30
1514	9/16	"	4.30
1515	19/32	"	4.30
1516	5/8	"	4.30
1517	21/32	"	4.80
1518	11/16	"	4.80
1519	23/32	"	4.80
1520	3/4	"	4.80
1521	25/32	"	5.70
1522	13/16	"	5.70
1523	27/32	"	5.70
1524	7/8	"	5.70
1525	29/32	"	6.70
1526	15/16	"	6.70
1527	31/32	"	6.70
1528	1	"	6.70
1529	1 - 1/16	"	8.20
1530	1 - 1/8	"	8.20
1531	1 - 3/16	"	9.60
1532	1 - 1/4	"	9.60
1533	1 - 5/16	"	11.50
1534	1 - 3/8	"	11.50
1535	1 - 7/16	"	13.50
1536	1 - 1/2	"	13.50
1537	1 - 9/16	"	15.40
1538	1 - 5/8	"	15.40
1539	1-11/16	"	17.30
1540	1 - 3/4	"	17.30
1541	1-13/16	"	19.30
1542	1 - 7/8	"	19.30
1543	1-15/16	"	21.70
1544	2	"	21.70
1546	2 - 1/8	"	24.10
1548	2 - 1/4	"	26.50
1550	2 - 3/8	"	28.90
1552	2 - 1/2	"	31.30
1554	2 - 5/8	"	38.60
1556	2 - 3/4	"	38.60
1558	2 - 7/8	"	42.20
1560	3	"	45.80

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Hand Reamers Carbon Steel

1300	1/8	Reamer	2.00
1301	9/64	"	2.40
1302	5/32	"	2.40
1303	11/64	"	2.40
1304	3/16	"	2.40
1305	13/64	"	2.80
1306	7/32	"	2.80
1307	15/64	"	2.80
1308	1/4	"	2.80
1309	17/64	"	3.00
1310	9/32	"	3.00
1311	19/64	"	3.00
1312	5/16	"	3.00
1313	21/64	"	3.25
1314	11/32	"	3.25
1315	23/64	"	3.25
1316	3/8	"	3.25
1317	25/64	"	3.50
1318	13/32	"	3.50
1319	27/64	"	3.50
1320	7/16	"	3.50
1321	29/64	"	3.80
1322	15/32	"	3.80
1323	31/64	"	3.80
1324	1/2	"	3.80
1326	17/32	"	4.00
1328	9/16	"	4.00
1330	19/32	"	4.50
1332	5/8	"	4.50
1334	21/32	"	4.90
1336	11/16	"	4.90
1338	23/32	"	5.25
1340	3/4	"	5.25
1342	25/32	"	5.90
1344	13/16	"	5.90
1346	27/32	"	6.60
1348	7/8	"	6.60
1350	29/32	"	7.20
1352	15/16	"	7.20
1354	31/32	"	7.90
1356	1	"	7.90
1358	1 - 1/16	"	9.40
1360	1 - 1/8	"	10.10
1362	1 - 3/16	"	10.80
1364	1 - 1/4	"	11.50
1366	1 - 5/16	"	12.20
1368	1 - 3/8	"	13.20
1370	1 - 7/16	"	14.10
1372	1 - 1/2	"	15.10
1374	1 - 9/16	"	18.00
1376	1 - 5/8	"	19.00
1378	1-11/16	"	20.10
1380	1 - 3/4	"	21.15
1382	1-13/16	"	22.25
1384	1 - 7/8	"	23.40
1386	1-15/16	"	24.50
1388	2	"	25.50

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Repairman's Taper Reamers

Stock No.		Dealer Net
		Carbon Steel
56	Box of 12	$24.00
56	Individual Reamer	2.00
57	Individual Reamer	3.10
58	T-Handle for 57 Reamer	.25

Replacement Kits of Nuts and Collars for Adjustable Reamers

Reamer Number	Nuts Each	Collars Each	No. 225 Qty. of each in kit	No. 225 Total	No. 225A Qty. of each in kit	Dealer Net No. 225A Total
8A & 395	$ .45	$ .25	5	$3.50	3	$2.10
7A & 396	.45	.25	5	3.50	3	2.10
6A & 397	.45	.25	5	3.50	3	2.10
5A & 398	.45	.25	5	3.50	3	2.10
4A & 399	.45	.25	5	3.50	3	2.10
3A & 400	.45	.25	5	3.50	3	2.10
2A & 401	.45	.25	5	3.50	3	2.10
A	.45	.25	5	3.50	3	2.10
1B & 0L	.45	.25	5	3.50	2	1.40
2B & 1L	.45	.25	5	3.50	2	1.40
B, 3B & 2L	.45	.25	5	3.50	3	2.10
C, 4B, 3L & 4L	.45	.25	5	3.50	3	2.10
D, 5B & 5L	.45	.25	5	3.50	3	2.10
E, 6B, 6L & 7L	.45	.25	10	7.00	5	3.50
F, 7B & 8L	.45	.25	10	7.00	5	3.50
G, 8B & 9L	.45	.25	10	7.00	5	3.50
H, 9B & 10L	.45	.25	10	7.00	5	3.50
10B, 11L & 12L	.45	.25	5	3.50	3	2.10
11B & 13L	.45	.25	4	2.80	2	1.40
I, 12B & 14L	.55	.30	4	3.40	3	2.55
J, 13B & 15L	.55	.30	4	3.40	1	.85
K, 14B & 16L	.70	.40	2	2.20	1	1.10
L, 15B & 17L	.80	.50	2	2.60	1	1.30

225	Kit	91.40
225A	Kit	49.20
225B	Wooden Case Only	13.40

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Small Gasoline Engine Special Tools

565	Set	9.75
567	Set	5.50
568	Set	5.50
570	1/4 Pilot	.80
571	9/32 Pilot	.80
572	5/16 Pilot	.80
574	Dozen Coarse Abrasives	1.50
575	Dozen Fine Abrasives	1.50

Small Bore Cylinder Ridge Reamer

150	2" to 3"	7.25
160	Set 3 Blades 2" to 3"	3.30

Clinton Engine Bearing Reamers

6B	.730 — 13/16	8.90
7B	13/16 — 7/8	9.20

Solid Type Valve Guide Reamers

25L	1/4	2.75
28L	9/32	3.00
1000	5/16	3.00
995	Set	8.75

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Universal Cylinder Ridge Reamers

173	2- 9/16 - 4- 7/8	$16.55
171	2- 3/16 - 3- 3/16	13.35
173A	2- 9/16 - 3- 3/4	13.90
173B	3- - 4- 3/16	13.90

Deduct **$2.00** from the above prices if sets are desired in cardboard box instead of metal box.

Parts

180	2- 3/16 - 3- 3/16	3.60
181	2- 9/16 - 3- 3/4	3.60
182	3- 3/4 - 4- 7/8	3.60
183	3- - 4- 3/16	3.60
	Set of 3 blade strips and 3 screws	.75
	Set of 3 filler strips and 3 screws	.75
197		1.35

Truck, Tractor and Bus Size

174	4- 7/8 - 6- 7/16	20.15

Parts for No. 174 Set Only

178	4- 7/8 - 6- 7/16	4.50
179	6- 7/16 - 8	5.10
	Set of 3 blade strips and 3 screws	1.05
	Set of 3 filler strips and 3 screws	1.05
198		1.85

Reamer Cutting Oil

24	(12 one quart cans)	16.20
25	(1 one gallon can)	4.90
26	(1 five gallon can)	16.50
	One Quart Can	1.35

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HYDRAULIC BRAKE CYLINDER HONE

925	3/4 - 1- 7/8	22.70

Individual Hone Sets Without Flexible Shaft

S876	11/16 - 3/4	4.70
876	3/4 - 1-1/8	9.20
877	1- 1/8 - 1-1/2	8.20
878	1- 1/2 - 1-7/8	9.00
879	1- 7/8 - 2-1/4	13.90
880	2- 1/4 - 2-5/8	15.85

Individual Parts

S876BD		3.00
876BD		3.00
876BS		3.00
877B		4.50
878B		5.50
879B		7.35
880B		9.15
899C		2.40
899F		2.40
896		.90
897		.90
898		.90
919		.75
920		4.85